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HAKIM

OPERATION
and
MAINTENANCE



by FRED R. BIRKHIMER

Brief History

In the very early 1950's the Egyptian government set up a small arms manufacturing plant with the help of the Swedes. This factory produced the 8 x 57mm Hakim rifle which is closely patterned after the Swedish M42B rifle. It is a close enough copy that some of the parts will interchange. (See the chart on page 3.) There are minor differences such as the enlarged muzzle break/compensator, an adjustable gas system, the full-length handguard and a tangent type rear sight.

Both of these rifles are well made and capable of very fine accuracy.

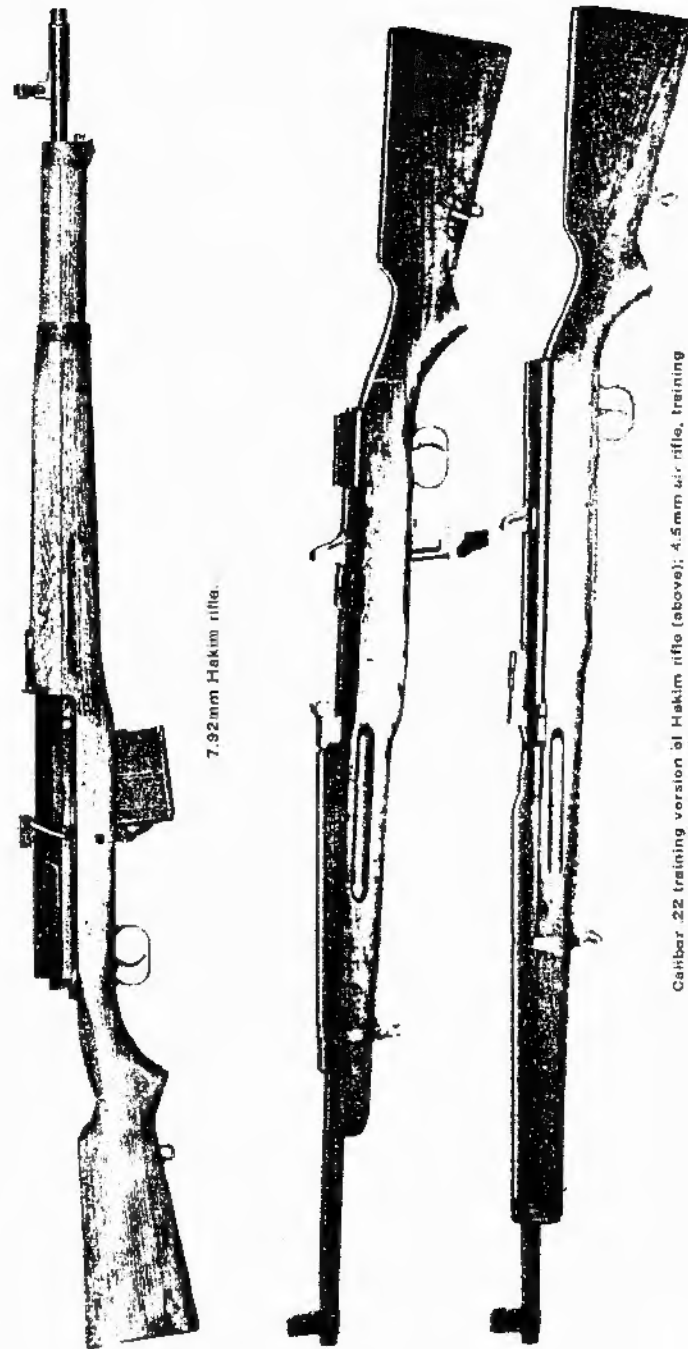
Approximately 60 to 80,000 Hakims and later about 8000 Rashid rifles (a 7.62 x 39mm modified Ljungman action) were produced in the above plant. Later in that same time period a few of the Hakims were modified to 7.62 x 39mm; but with the adoption of the AK-47, they were considered obsolete.

The Hakim was used against the Israelis during the Sinai War of 1956.

Several training rifles versions of the Hakim were used by Egypt. A .22 caliber rifle was made by Beretta and a 4.5mm air rifle was made by Anschutz.

Specifications:

Caliber:	8 x 57mm, 7.92mm Mauser
Operation:	Tilting-bolt, direct gas operated, semi-automatic
Length:	47 3/4 inches
Weight:	10 pounds, 6 ounces (empty)
Barrel:	24.5 inches long, 1 turn in 9 3/4", 4 groove, right hand twist



7.92mm Hakim rifle.

Caliber .22 training version of Hakim rifle (above); 4.5mm air rifle, training version of Hakim rifle (below).

The safety is mounted on the top rear of the receiver. It only stops the trigger from full travel and disables nothing else. "Safe" is to the far right and "Fire" is to the far left. If the safety lever is moved back partway from its full right position, it now becomes the take-down key. The tiny "ears" on the bottom of the safety shaft can be damaged, so use care when dis-assembling the rifle.

Sights

The Hakim has a tangent type rear sight mounted on the rear of the barrel and a covered post front sight mounted on the compensator on the front of the barrel.

Elevation adjustments are made with the rear sights and windage adjustments are made with the front sight.

The rear sight is marked in hundred meter increments (from 100 to 1000 meters) and is adjusted by slightly lifting the sight assembly (pivoting on the front pin), depressing the catch on the right side of the sight slide, then moving the slide forward or rearward. The reason for lifting upward on the rear sight is that the ramp has a series of .017 inch deep steps cut in it instead of the Mauser type of smooth curve.

The front sight is moved by loosening the set screw on the front face of the sight, then turning the screw on the right side. Turning the screw clockwise moves the sight to the right. Moving the screw counter-clockwise moves it left.

How To Load And Fire

The magazine on the Hakim rifle can be loaded off the rifle or in-place with 5-round Mauser stripper clips through the top using the guides on the front, top of the receiver cover.

Push the safety to the right and grasping the receiver cover, push it all the way forward, then pull back all the way to the rear. The bolt and carrier will stay locked to the rear until the safety is pushed to the left.

Fill the magazine, insert in the rifle and snap the clamp home.

Push the safety to the left, releasing the bolt and chambering a round. The rifle is now ready to fire unless the safety is put back.

The trigger pull is a long two-stage pull, but not unusually stiff. It has a long, easy first stage with a slightly stiffer second stage.

If the bolt is locked back with the last round hold-open, the safety need not be used.

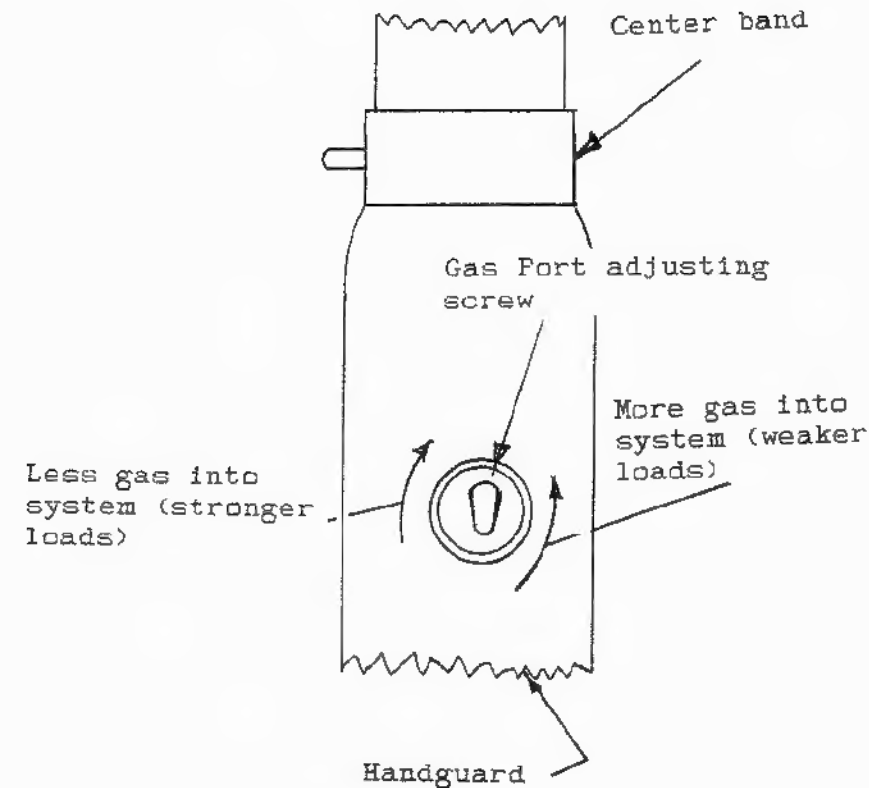
Load the magazine. Push forward on the receiver cover about one-quarter inch, then pull sharply to the rear. This action will trip the bolt latch in the back of the receiver cover, releasing the bolt to travel all the way forward, chambering a round as it goes.

How to Adjust the Gas System

The gas operating system of the Hakim rifle is adjustable. It is set by using the proper tool on the miniature pie slice shaped gas port adjusting screw visible through the hole in the front part of the top handguard.

To adjust the system, push the safety to the right as far as it will go. Make sure that the magazine is securely in the rifle. Push the receiver cover all the way forward, then pull it all the way back. The bolt will stay to the rear. Load one round through the top of the rifle into the magazine. Push the safety to the left side. This will release the bolt and chamber the cartridge. Fire the round into a safe backstop and watch how far the empty case travels. If it goes more than 6 to 8 feet, close the gas valve by turning the gas valve adjusting screw about one-eighth turn clock-wise. (The valve may be stuck from disuse. Break Free and a light tapping should loosen it.) Repeat the above procedure until the empty cases go that 6 to 8 feet.

Most of the rifles have come into the country set for Egyptian ammunition which is rather mild. You may not have to re-set the gas adjustment if that is the cartridge you are using. However, if you are using FN late production or commercial ammunition, turn the gas port screw one-quarter turn clock-wise and start from there.



If you get a short-recoil, the system needs opened up. Follow the above procedure, except turn the gas adjustment key counter-clockwise about one-eighth turn at a time until the shells eject cleanly (about 6 to 8 feet).

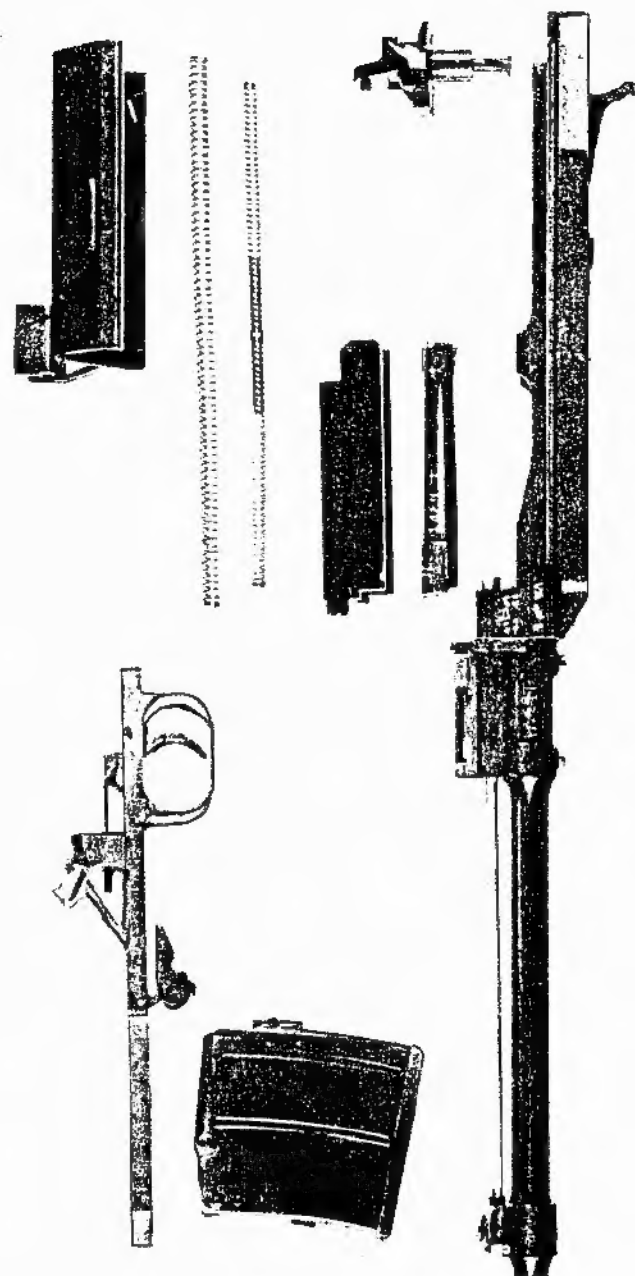
Fine tune the system until shells go the required distance AND the last round bolt hold-open stop positively catches the bolt.

Remember, anytime you change ammunition you may have to re-set the gas system.

CAUTION!!

If the gas system is set for low-powered ammunition (Egyptian) and high pressure cartridges (FN) are fired, sooner or later the extractor and the locking surfaces are in danger of being destroyed.

Gas port adjusting key



Field-stripped Hakim action

Field-Strip

To field-strip the rifle, remove the magazine. Push the receiver cover clear forward and pull all the way back. This cocks the rifle and puts the bolt in battery. Put the safety in the "ON" position (to the right side). Pull forward on the receiver cover about three-quarters of an inch. Gently push the safety lever toward the middle position (toward the left), while pulling lightly upward on the safety housing. The housing should release when the lever is about one-half to three-quarters of the distance toward the middle. When it releases, pull the safety housing up and out of the rifle.

Be careful not to damage the "ears" on the bottom of the safety shaft, when pulling the assembly out of the rifle. If the safety lever is aligned correctly for dis-assembly, the housing will practically fall out of the rifle.

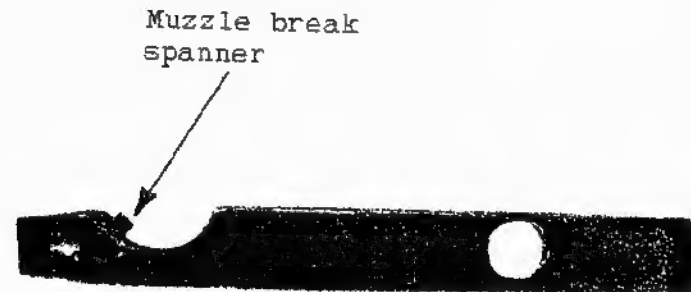
Now ease the receiver cover to the rear and off the rifle. The recoil springs may or may not come off with the cover. Now slide the bolt and carrier rearward off the rifle.

The rifle is now field-stripped and ready for cleaning, but remember that the hammer is still cocked.

If you have the metal Egyptian gas port adjusting tool, it has a spanner built into the one end of the handle, as pictured on the next page.

With this tool and a scribe, you can remove the muzzle break cap to clean the inside of the muzzle break properly.

Slip the point of the scribe under the end of the retainer spring in its recess and pry the spring up and out of its groove. Rotate the retainer spring partly around the cap so that it doesn't slip back into the recess. Now take the spanner and hook the wrench into the blind hole in the muzzle break cap. The threads are a normal right-hand metric thread and will unscrew in a counter-clockwise direction. You may have to tap the wrench the first time you remove the cap.

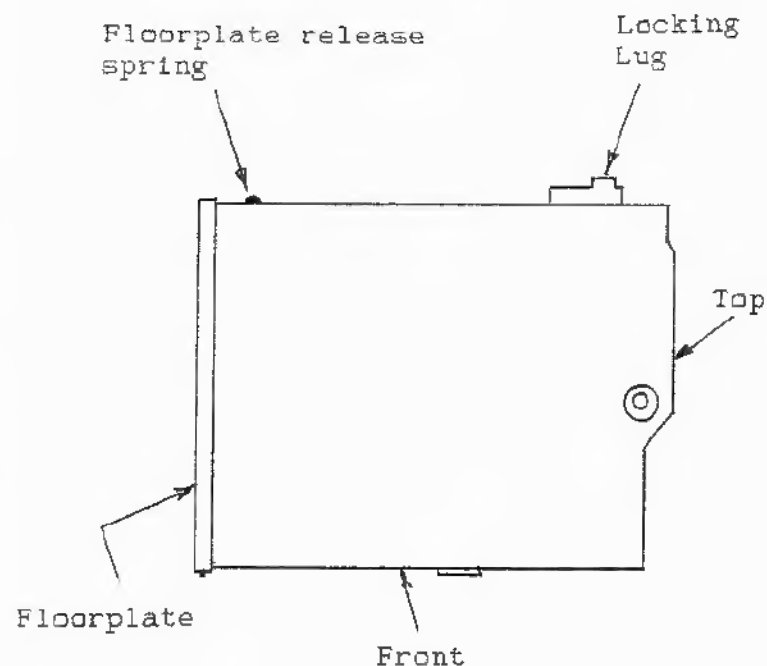


10 Round Magazine

First, remove the magazine from the rifle and turn it so that the front is down on a working surface. The locking lug and floorplate retainer on the back of the magazine will be exposed. About one-half inch from the bottom of the magazine will be a hole with a piece of the retainer spring protruding through it. Push down on the notch cut in the retainer with a small punch or screwdriver while pulling slightly on the floorplate. When the retainer is below the back of the magazine, the floorplate will be pushed away from the assembly by spring pressure. Once the retainer is clear of the body, the floorplate can be moved to clear the front retainer lug. Ease the spring on out. If the magazine is turned right side up, the follower will fall out the bottom. Clean the parts thoroughly and lightly oil them.

To re-assemble, put the follower and spring back into the body. Turn the magazine so that the back is down on your working surface. Put the floorplate over the spring and press it into the body. Position the rear retainer spring on the floorplate near its hole in the body and line up the front retaining lug on the body with its with the slot in the floorplate.

By pushing down on the floorplate so that the front lug is caught in its slot and pushing IN on the back of the floorplate, the floorplate will snap into place. This operation takes a little practice.



Cleaning

The Hakim must be kept clean for best service and durability.

After each firing session, field-strip the rifle and clean it. Since the rifle uses a direct gas operating system, the action can get quite dirty quickly. Clean the operating parts, especially the bolt and carrier, with power solvent on a rag. Include the inside of the receiver and its rails in your efforts. Pay particular attention to the breech face and the matching surfaces on the bolt and carrier as a residue build up there can possibly cause a misfire. Once in a while the trigger guard should be removed so as to expose the trigger and hammer assemblies to your cleaning. Dirt in the trigger makes for a terrible let-off.

A .32 caliber brass brush and jag work well in the bore. A .30/06 chamber brush works well in the 8 x 57mm chamber, though a .410 shotgun bore brush can be used.

Long pipe cleaners soaked in powder solvent can be used in the gas tube. Use a strong power solvent.

A Teflon bearing lubricant is an excellent idea on this rifle. Use it lightly on all of the moving parts. The use of this kind of lubricant on the sear surfaces and also the trigger group pivot and sliding surfaces improves the trigger operation.

Lightly oil all of the metal parts before re-assembly.

COMPLETE TAKE-DOWN

To do a complete take-down on the rifle, first, field-strip it. Remove the long screw from the front of the barrel band base. Tap (with a small block of wood) and wiggle the front band forward off the stock. It is now loose on the barrel and can be taken apart and off the rifle. WATCH HOW IT COMES APART so that you can reverse the procedure when it's re-assembled. Be careful with this assembly as it is part of the good accuracy of the rifle.

Turn the rifle on it's top, if you haven't already. With a screwdriver, pry upward on the center barrel band retainer clip and slide the center barrel band forward off the stock.

The top handguard has two alignment pins several inches forward of the rear of the handguard. Lift the forward part of the stock off of the barrel a little bit and pull the forward part of the handguard away from the barrel and forward off the rifle. Watch the position of the two alignment pins.

Now remove the trigger guard. With your scribe point pry the three action screw retainer ends out of the screw cross slots. Remove the three action screws, remembering that the hammer is still cocked. Don't lose the steel spacer that the center action screw goes through! This stiffens the center of the receiver and holds the proper spacing between the trigger guard and the bottom of the receiver.

The gas tube is threaded on the forward end and can be removed for cleaning. Note the position of the jambnut on the gas tube as you'll need to put it back in that position. Loosen the right-hand threaded jambnut on the forward end of the gas tube. Using the flats on the gas tube, unscrew the tube from the gas port junction block. The tube will now slide forward out of the gas tube bushing in the receiver, if you lift up on the front end of the tube JUST ENOUGH to clear the junction block.

The rear sight base is removed by loosening the two set screws in the two retainer clips and sliding them off the base. The rear sight will now fall off the rifle. The sight leaf is removed by drifting out the pivot pin.

The front sight can be removed easily from the base, if you don't forget about the set screw in the front of the base. Mark the position of the sight. The base can be removed from the barrel by loosening the base set screw that is located in the bottom, center of the dovetail and drifting the base rearward off the dovetail cuts in the muzzlebrake with a block of hardwood.

Re-assembly is done in the reverse of the above.

Accessories

- 1) See-through scopemount
- 2) Extended magazine release w/o clamp
- 3) 20 round magazine
- 4) Replacement sight slide
- 5) Muzzlebreak spanner (metal)

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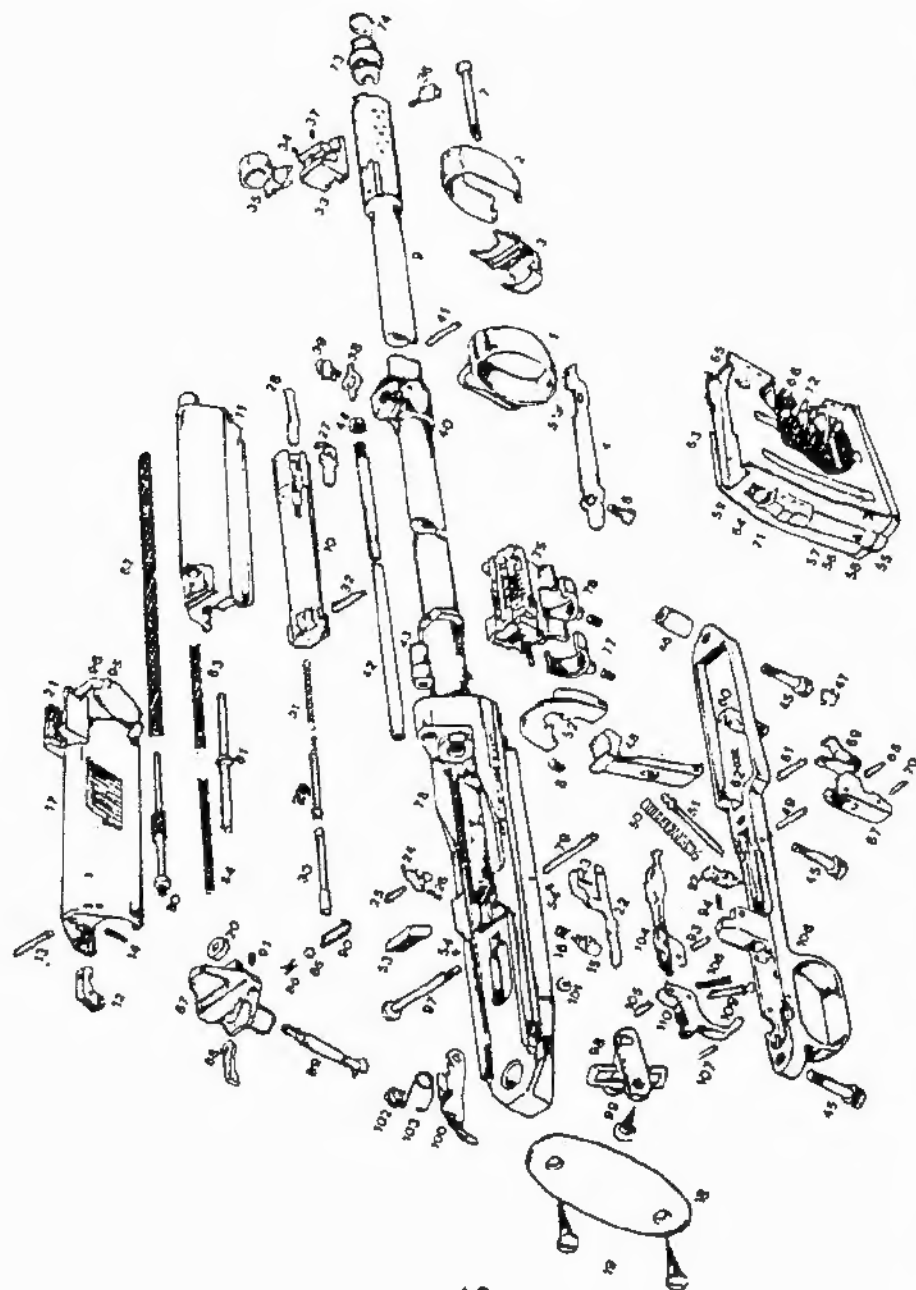
- 1) 1" rubber buttpad

Nero Enterprises, Inc.
P.O. Box 70
Little Northfield Rd.
Northfield, VT 05663
(804) 485-6767

- 1) Bayonets
- 2) Gas port key (plastic)
- 2A) Gas port key/ muzzle break spanner (metal)
- 3) Some replacement parts and ammo

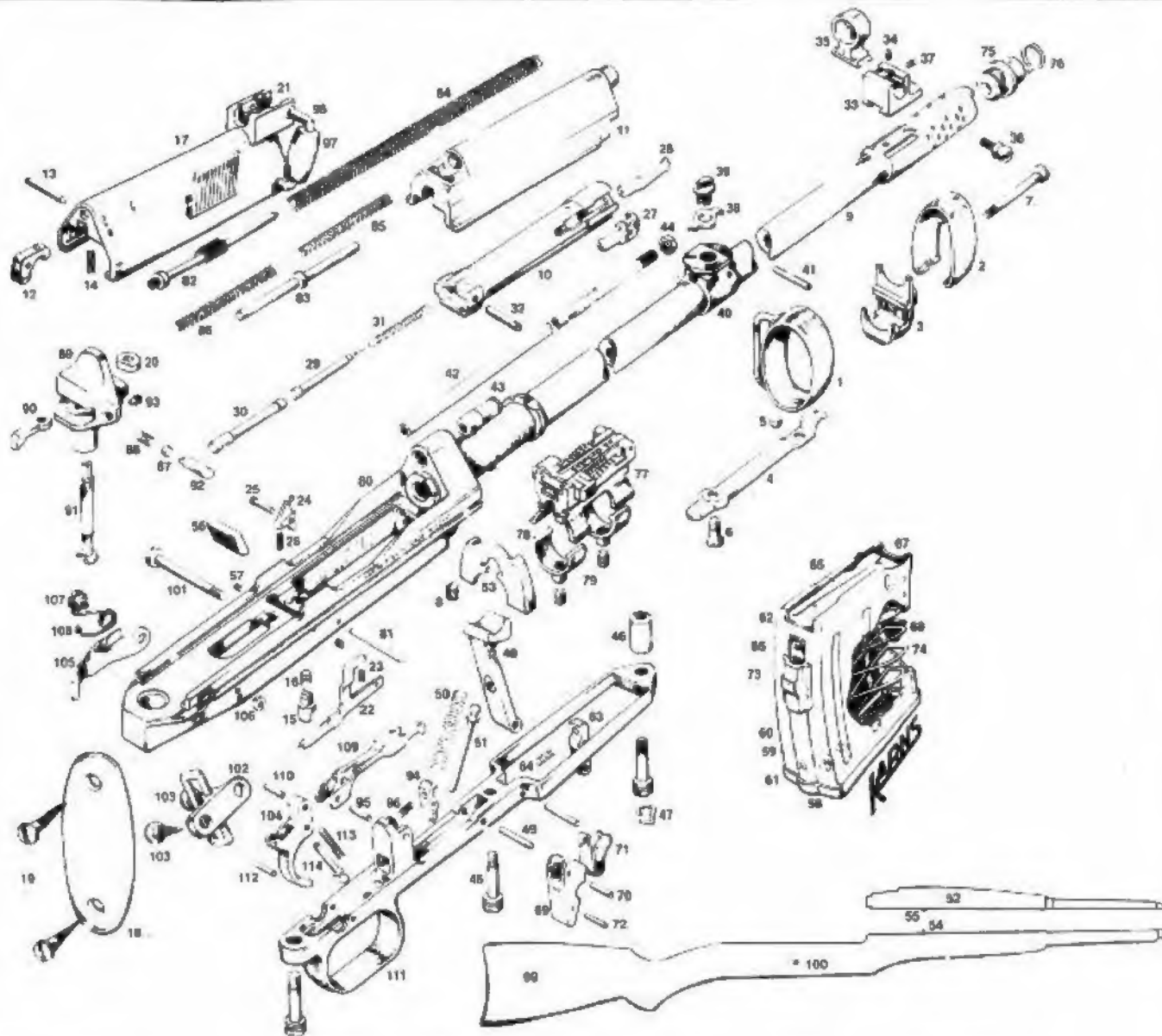
Century International Arms, Inc.
P.O. Box 714-S
St. Albans, VT. 05478
(802) 527-1252

Parts Diagram



Parts List

1. Center barrel band
- 1A. Center band sling guide
2. Front barrel band
3. Front barrel band base
4. Center band retainer clip
5. Barrel band retainer stud
6. Center band screw
7. Front band screw
8. Barrel set screw
9. Barrel w/muzzle break
10. Bolt body
11. Bolt carrier
- 11A. Bolt carrier gas port cylinder
12. Bolt latch
13. Bolt latch pin
14. Bolt latch spring
15. Bolt stop
16. Bolt stop spring
17. Receiver cover
- 17A. Rear guide slide lock
- 17B. Bolt release catch spring
19. Buttplate screw (2)
20. Carrier latch cam
21. Clip guide
22. Disconnecter
24. Ejector
25. Ejector pin
27. Extractor
28. Extractor spring
29. Firing pin
30. Firing pin extension
31. Firing pin return spring
32. Firing pin stop pin
33. Front sight base
34. Front sight base set screw
35. Front sight blade
36. Front sight blade adjusting screw
37. Front sight blade set screw
38. Gas port adjustment lock
39. Gas Adjustment screw
40. Gas port junction block
41. Gas port junction block pin
42. Gas tube
43. Gas tube bushing
44. Gas tube lock nut
45. Trigger guard screw (3)
46. Guard screw bushing (3)
47. Guard screw Lock (3)
48. Hammer
49. Hammer pivot pin
50. Hammer spring
51. Hammer strut
52. Rear handguard retainer
53. Locking lug
54. Locking lug set screw (2)
55. Magazine floorplate
56. Magazine body
58. Floorplate retainer
60. Magazine catch
61. Magazine catch pin
62. Magazine catch spring
63. Magazine follower
66. Magazine guide plate
67. Magazine latch
68. Magazine latch pin
69. Magazine latch spring
71. Magazine locking lug
72. Magazine spring
73. Muzzle break cap
74. Muzzle break lock spring
75. Rear sight
- 75I. Rear sight base
76. Rear sight retainer clip (2)
77. Rear sight retainer screws (2)
79. Receiver cross pin
80. Recoil spring guide rod
81. Recoil spring guide sleeve
82. Primary recoil spring
83. Front secondary recoil
84. Rear secondary recoil
85. Safety detent button
86. Safety detent spring
87. Safety housing
- 87A. Safety housing pin
88. Safety lever
89. Safety shaft
90. Safety shaft retainer
92. Sear
93. Sear pivot pin
94. Sear spring
95. Shell buffer
96. Shell deflector
97. Sling swivel screw
98. Rear sling swivel
99. Rear swivel screw (2)
100. Trigger block
101. Trigger block nut
102. Trigger block screw
103. Trigger block spring
104. Trigger extension bar
105. Trigger extension bar
106. Trigger guard
107. Trigger pivot pin
108. Trigger return spring
109. Trigger strut
110. Trigger
112. Stock
113. Handguard



Parts Legend

- | | | | |
|---------------------------------------|---------------------------------|--------------------------------------|---------------------------------|
| 1. Barrel band (center) | 30. Firing pin extension | 61. Magazine base lock stud | 90. Safety lever |
| 2. Barrel band (front) | 31. Firing pin return spring | 62. Magazine body | 91. Safety shaft |
| 3. Barrel band base (front) | 32. Firing pin stop pin | 63. Magazine catch | 92. Safety shaft retainer |
| 4. Barrel band retainer clip (center) | 33. Front sight base | 64. Magazine catch spring | 93. Safety shaft retainer screw |
| 5. Barrel band retainer stud | 34. Front sight base set screw | 65. Magazine follower | 94. Sear |
| 6. Barrel band screw (center) | 35. Front sight blade assembly | 66. Magazine follower lug plate | 95. Sear pivot pin |
| 7. Barrel band screw (front) | 36. Front sight adjusting screw | 67. Magazine front insert | 96. Sear spring |
| 8. Barrel band set screw | 37. Front sight blade set screw | 68. Magazine guide plate | 97. Shell buffer |
| 9. Barrel with muzzle brake | 38. Gas port adjustment lock | 69. Magazine latch | 98. Shell deflector |
| 10. Bolt body | 39. Gas port adjusting screw | 70. Magazine latch pin | 99. Stock |
| 11. Bolt carrier | 40. Gas port junction block | 71. Magazine latch spring | 100. Stock bolt escutcheon |
| 12. Bolt latch | 41. Gas port junction block pin | 72. Magazine latch spring pin | 101. Stock screw |
| 13. Bolt latch pin | 42. Gas tube | 73. Magazine locking stud | 102. Swivel (rear) |
| 14. Bolt latch spring | 43. Gas tube bushing | 74. Magazine spring | 103. Swivel screws, rear (2) |
| 15. Bolt stop | 44. Gas tube lock nut | 75. Muzzle brake cap | 104. Trigger |
| 16. Bolt stop spring cover | 45. Guard screw (3) | 76. Muzzle brake lock spring | 105. Trigger block |
| 17. Breech cover | 46. Guard screw bushing (3) | 77. Rear sight assembly | 106. Trigger block nut |
| 18. Buttplate | 47. Guard screw lock (3) | 78. Rear sight retainer clip (2) | 107. Trigger block screw |
| 19. Buttplate screws (2) | 48. Hammer | 79. Rear sight retainer screw (2) | 108. Trigger block spring |
| 20. Carrier latch cam | 49. Hammer pivot pin | 80. Receiver | 109. Trigger extension bar |
| 21. Clip guide | 50. Hammer spring | 81. Receiver cross pin | 110. Trigger extension bar pin |
| 22. Disconnecter | 51. Hammer strut | 82. Recoil spring guide rod | 111. Trigger guard/floorplate |
| 23. Disconnecter spring | 52. Handguard | 83. Recoil spring guide sleeve | 112. Trigger pivot pin |
| 24. Ejector | 53. Handguard retainer (rear) | 84. Recoil spring, primary | 113. Trigger return spring |
| 25. Ejector pin | 54. Handguard stock pin | 85. Recoil spring, secondary (front) | 114. Trigger strut |
| 26. Ejector spring | 55. Handguard stock pin bushing | 86. Recoil spring, secondary (rear) | |
| 27. Extractor | 56. Locking lug | 87. Safety detent button | |
| 28. Extractor spring | 57. Locking lug set screw (2) | 88. Safety detent spring | |
| 29. Firing pin | 58. Magazine base | 89. Safety housing | |
| | 60. Magazine base latch spacer | | |

Drawing courtesy of Hakim parts supplier Century International Arms, Inc., Dept. AR, 48 Lower Newton St., St. Albans, VT 05478